



## Qian Chai

### Contact

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### Units

Institute of Immunobiology

## Publications (9)

Chung J, Onder L, Yan M, Reddy P, Blazar B, Huang A, Brennan T, Bishop D, Ludewig B, Siebel C, Radtke F, Luther S, Chai Q, Tran I, Ebens C, Perkey E, Radojic V, Koch U, Scarpellino L, Tong A, Allen F, Wood S, Feng J, Friedman A, Granadier D, Maillard I. Fibroblastic niches prime T cell alloimmunity through Delta-like Notch ligands. *J Clin Invest* 2017; 127:1574-1588.

Gil Cruz C, Scandella E, Ikuta K, Cui G, Abe S, McCoy K, Geuking M, Lang P, Novkovic M, Cheng H, Cupovic J, Chai Q, Onder L, Pérez Shibayama C, Ludewig B. Fibroblastic reticular cells regulate intestinal inflammation via IL-15-mediated control of group 1 ILCs. *Nat Immunol* 2016; 17:1388-1396.

Onder L, Waisman A, Becher B, Ledermann B, Mair F, Maier R, Bomze D, Novkovic M, Caviezel-Firner S, Cheng H, Chai Q, Scandella E, Nindl V, Ludewig B. Alternative NF- $\kappa$ B signaling regulates mTEC differentiation from podoplanin-expressing precursors in the cortico-medullary junction. *Eur J Immunol* 2015

Fasnacht N, Luther S, Ludewig B, Tacchini-Cottier F, MacDonald H, Pinschewer D, Kallert S, Onder L, Chai Q, Auderset F, Favre S, Koch U, Huang H, Radtke F. Specific fibroblastic niches in secondary lymphoid organs orchestrate distinct Notch-regulated immune responses. *J Exp Med* 2014; 211:2265-79.

Pérez Shibayama C, López-Macías C, Isibasi A, Waisman A, Regen T, Scandella E, Onder L, Chai Q, Hisaki E, Cervantes-Barragan L, Pastelin-Palacios R, Gil Cruz C, Ludewig B. IFN- $\gamma$ -producing CD4<sup>+</sup> T cells promote generation of protective germinal center-derived IgM<sup>+</sup> B cell memory against Salmonella Typhi. *J Immunol* 2014; 192:5192-200.

Chai Q, Hehlgans T, Stein J, Rülcke T, Thiel V, Luther S, Sparwasser T, Danuser R, Cupovic J, Pérez Shibayama C, Gil Cruz C, Scandella E, Onder L, Ludewig B. Maturation of lymph node fibroblastic reticular cells from myofibroblastic precursors is critical for antiviral immunity. *Immunity* 2013; 38:1013-24.

Onder L, Danuser R, Scandella E, Firner S, Chai Q, Hehlgans T, Stein J, Ludewig B. Endothelial cell-specific lymphotoxin- $\beta$  receptor signaling is critical for lymph node and high endothelial venule formation. *J Exp Med* 2013; 210:465-73.

Onder L, Coles M, Cupedo T, Westermann J, Kaye P, Richie E, Halin C, Hoorweg K, Iolyeva M, Chai Q, Scandella E, Narang P, Ludewig B. IL-7-producing stromal cells are critical for lymph node remodeling. *Blood* 2012; 120:4675-83.

Onder L, Scandella E, Chai Q, Firner S, Mayer C, Sparwasser T, Thiel V, Rülcke T, Ludewig B. A novel bacterial artificial chromosome-transgenic podoplanin-cre mouse targets lymphoid organ stromal cells in vivo. *Front Immunol* 2011; 2:50.

## Projects (2)

### **Imaging-based Systems Biology Analysis of Lymph Node Structure and Function in Viral Infection**

*Fundamental Research - Aug 1, 2012 - Jul 31, 2016*

*Automatically Closed*

### **Systems immunological analysis of lymph node structure and function in viral infection**

*Fundamental Research - Aug 1, 2012 - Jul 31, 2016*

*Completed*

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